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| APPLICABLE STANDARD  |   |  |                           |                              |                |   |
|--|---|--|---------------------------|------------------------------|----------------|---|
| RATING   | OPERATING TEMPERATURE RANGE   | -35°C TO +85°C (NOTES 1)   | STORAGE TEMPERATURE RANGE | -10°C TO + 60°C (NOTE 2)     |                |   |
|  | VOLTAGE   | 50V AC   | APPLICABLE CONNECTOR      | DF17# (**)-*DP-0. 5V (**)    |                |   |
|  | CURRENT   | 0. 3A  |                           |                              |                |   |
| <b>SPECIFICATIONS</b>  |   |  |                           |                              |                |   |
| ITEM   | TEST METHOD   | REQUIREMENTS   | QT                        | AT                           |                |   |
| <b>CONSTRUCTION</b>  |   |  |                           |                              |                |   |
| GENERAL EXAMINATION  | VISUALLY AND BY MEASURING INSTRUMENT.   | ACCORDING TO DRAWING.  | X                         | X                            |                |   |
| MARKING  | CONFIRMED VISUALLY.   |  | X                         | X                            |                |   |
| <b>ELECTRIC CHARACTERISTICS</b>  |   |  |                           |                              |                |   |
| CONTACT RESISTANCE   | 100m A (DC OR 1000 Hz).   | 60mΩ MAX.  | X                         | —                            |                |   |
| INSULATION RESISTANCE  | 100V DC.  | 500MΩ MIN.   | X                         | —                            |                |   |
| VOLTAGE PROOF  | 150V AC FOR 1 min.  | NO FLASHOVER OR BREAKDOWN.   | X                         | —                            |                |   |
| <b>MECHANICAL CHARACTERISTICS</b>  |   |  |                           |                              |                |   |
| INSERTION AND WITHDRAWAL FORCES  | MEASURED BY APPLICABLE CONNECTOR.   | PIN COUNT  | INSERTION FORCE (N)MAX    | WITHDRAWAL FORCE (N)MIN      | X              | — |
|  |   | 30   | 30.0                      | 3.0                          |                |   |
|  |   | 40   | 40.0                      | 4.0                          |                |   |
|  |   | 50   | 50.0                      | 5.0                          |                |   |
|  |   | 60   | 60.0                      | 6.0                          |                |   |
|  |   | 80   | 80.0                      | 8.0                          |                |   |
| MECHANICAL OPERATION   | 50TIMES INSERTIONS AND EXTRACTIONS.   | ① CONTACT RESISTANCE: 60mΩ MAX.<br>② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.   | X                         | —                            |                |   |
| VIBRATION  | FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, AT 2 h, FOR 3 DIRECTIONS.  | ① NO ELECTRICAL DISCONTINUITY OF 1μs.<br>② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.                                   | X                         | —                            |                |   |
| SHOCK  | 490 m/s <sup>2</sup> DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.   | ① NO ELECTRICAL DISCONTINUITY OF 1μs.<br>② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.                                   | X                         | —                            |                |   |
| <b>ENVIRONMENTAL CHARACTERISTICS</b>   |   |  |                           |                              |                |   |
| RAPID CHANGE OF TEMPERATURE  | TEMPERATURE -55→ 5 TO 35→ 85→ 5 TO 35°C<br>TIME 30→10 TO 15→ 30→10TO15min<br>UNDER 5 CYCLES.  | ① CONTACT RESISTANCE: 60mΩ MAX.<br>② INSULATION RESISTANCE: 500 MΩ MIN.<br>③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | X                         | —                            |                |   |
| DAMP HEAT (STEADY STATE)   | EXPOSED AT 40 ± 2 °C, 90 TO 95 %, 96 h.   | ① CONTACT RESISTANCE: 60mΩ MAX.<br>② INSULATION RESISTANCE: 250 MΩ MIN.<br>③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | X                         | —                            |                |   |
| CORROSION SALT MIST  | EXPOSED IN 5% SALT WATER SPRAY FOR 48 h.  | ① CONTACT RESISTANCE: 60 mΩ MAX.<br>② NO HEAVY CORROSION.  | X                         | —                            |                |   |
| SULPHUR DIOXIDE  | EXPOSED IN 10 PPM FOR 96 h.<br>(TEST STANDARD:JEIDA-39)   | ① CONTACT RESISTANCE: 60 mΩ MAX.<br>② NO HEAVY CORROSION.  | X                         | —                            |                |   |
| HEAT RESISTANCE OF SOLDERING   | 【RECOMMENDED TEMPERATURE PROFILE】<br>《SOLDERING AREA》<br>MAX250°C, 220°C FOR 60 SECONDS MAX.<br>《PREHEATING AREA》<br>150 TO 180°C 120 SECONDS.<br>MAXIMUM TWICE ACTION IS ALLOWED UNDER THE SAME CONDITION.<br>【RECOMMENDED MANUAL SOLDELING CONDITION】<br>SOLDERING IRON TEMPERATURE 350°C<br>SOLDERING TIME : WITHIN 3 SECONDS. | NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.  | X                         | —                            |                |   |
|  | COUNT   | DESCRIPTION OF REVISIONS   | DESIGNED                  | CHECKED                      | DATE           |   |
|  | 1   | DIS-H-00003088   | SH. HOSODA                | TS. MIYAZAKI                 | 17. 09. 29     |   |
| REMARKS  |   |  | APPROVED                  | MO. NAKAMURA                 | 05. 10. 31     |   |
| NOTE1:INCLUDING THE TEMPERATURE RISE BY CURRENT.                                   |   |  | CHECKED                   | TS. MIYAZAKI                 | 05. 10. 28     |   |
| NOTE2:STORAGEIS DEFINED AS LONG-TERM STORAGE OF UNUSED PRODUCTS.                   |   |  | DESIGNED                  | YH. MICHIDA                  | 05. 10. 28     |   |
| APPLY OPERATION TEMPERATURE RANGE TO PRODUCTS MOUNTED ON PCB WITHOUT POWER SUPPLY. |   |  | DRAWN                     | HK. MURAKAMI                 | 05. 10. 27     |   |
| UNLESS OTHERWISE SPECIFIED,REFER TO JIS C 5402.                                    |   |  |                           |                              |                |   |
| Note   | QT:Qualification Test   | AT:Assurance Test  | X:Applicable Test         | DRAWING NO.                  | ELC4-162128-05 |   |
|  | SPECIFICATION SHEET   |  | PART NO.                  | DF17A (3. 0) -*DS-0. 5V (57) |                |   |
|  | HIROSE ELECTRIC CO., LTD.   |  | CODE NO.                  | CL683                        | 1/1            |   |